

Additional Comments:

**** Portion Below This Line To Be Filled Out by MoDOT ****

Comments:

This V.E. proposal would require either a profile change or additional material for the adjustment in base from 18" to 4" or 6". There is a concern about trapping water next to the roadway by eliminating the 18" Rock Fill Base to be used in the widening of Westbound Existing Route 54 for the off ramp. The Type 1 Base Rock Prices are higher than the 2008 Unit Bid Prices. If approved, these prices need justified. I recommend approval of this V.E. Proposal provided the above comments are addressed.

Michael K. O'Malley

Submitted By Resident Engineer

2/22/10

Date

Comments:

Further review and discussion of this proposal have determined that it is acceptable based on the following:

- that the material left in place and utilized in lieu of placing 18" rock base is found to be equal to or better than rock base material, and
- that 4" Type 5 base be used and be highlighted.



Approval
Recommended

Roger Schwartz

District Engineer

3/18/10

Date



Rejection
Recommended

Comments:



Approval
Recommended



Rejection
Recommended

Federal Highway Administration
Required for FHWA Full Oversight Projects

Date

Comments:

Agree with district comments.

David D. Goober

3-19-10



Approval



Rejection

State Construction and Materials Engineer Baw

Date

Distribution: Resident Engineer, Project Manager, District Construction & Materials Engineer, State Construction & Materials Engineer, FHWA Value Engineering Administrator - MoDOT, P.O. Box 270, Jefferson City, MO 65102



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February 19, 2010

Mr. Mike O'Malley
Missouri Dept. of Transportation
93 Morgan Street
Camdenton, MO 65020

**RE: VE Eliminate Rock Fill Base
Route 54, Miller County
Job No. J5P0648D**

Mr. O'Malley:

Emery Sapp & Sons would like to propose to eliminate approximately 11,625 SY of 18" Rock Fill Base. We believe that the planned areas for Rock Fill Base can be stabilized and constructed in a much more cost effective manner. All areas that we are to place the 18" Rock Fill Base are either to be constructed in existing rock cuts or in areas that we believe Rock Fill was already used.

Our proposal includes elimination of approximately 5,659 cy of Unclassified Excavation on Horse Shoe Bend Expressway that is required to make 11,625 SY of 18" Rock Fill Base. In lieu of the Rock Fill Base we will place 4 - 6 inches of Type 1 Aggregate Base and keep the paving thickness the same as planned. We do not believe it is necessary to change the PCCP Depth's in these areas since MoDOT has designed and constructed similar 4 lane projects on Hwy 67 in Madison Co using the same pavement and base course design as we are proposing.

Approval of this Value Engineering Proposal will not only save money but will also improve the level of safety as well as lessen the inconvenience for the traveling public during the construction stages of the project. The elimination of the excavation and blasting of the Rock along Horse Shoe Bend will prevent any chance of damage or injury to the traveling public caused by blasting near the existing travel way of Hwy 54.

If our proposal is accepted the only area that will require 18" Rock Fill Base would be the connection of Horse Shoe Bend and Existing Hwy 54. All other paving areas would be stabilized by existing ground in previous rock cut or fill areas as well as 4 - 6 inches of Type 1 Aggregate Base.

Attached are two scenarios showing a breakdown of the savings. We believe it may be to more beneficial to both parties if the determination of the depth of baserock needed be decided once the excavation of the existing roadway has been completed. Please review the attached breakdown and let us know as soon as possible if the Rock Fill Base can be eliminated. This decision is critical because the blasting for this material will need to take place prior to starting anything else on the project.

Sincerely,

Emery Sapp & Sons, Inc.

Josh Doerhoff
Project Manager

Miller Co Rt 54 J5P0648D

Value Engineering Breakdown to Eliminate Rock Fill Base

Value Engineering Breakdown

1	X	Unclassified Excavation	5,659	CY	X	\$	9.50	/CY	\$	53,760.50
1	X	Placing Rock Base (18 IN) Thick	11,625	SY	X	\$	6.00	/SY	\$	69,750.00
-1	X	6" Type 1 Baserock	11,625	SY	X	\$	8.37	/SY	\$	(97,287.47)

Total Savings = \$ 26,223.26

Miller Co Rt 54 J5P0648D

Value Engineering Breakdown to Eliminate Rock Fill Base

Value Engineering Breakdown

1	X	Unclassified Excavation	5,659	CY	X	\$	9.50	/ CY	\$	53,760.50
1	X	Placing Rock Base (18 IN) Thick	11,625	SY	X	\$	6.00	/ SY	\$	69,750.00
-1	X	4" Type 1 Baserock	11,625	SY	X	\$	6.51	/ SY	\$	(75,628.46)

Total Savings = \$ 47,882.27

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK

(Check one that applies)

- ☐ Bridge/Structure/Footings
- ☐ Drainage Structures (RCP, RCB, CMP's, ect.)
- ☐ TCP/MOT
- ☐ Paving (PCCP, ect.)
- ☒ Grading/MSE Walls
- ☐ Signal/Lighting/ITS
- ☐ Misc. _____

SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

The contractor proposes to use in place material in lieu of 18" rock base. This would also eliminate the need for excavation in this area. The contractor would place 4" of type 5 base rock that would be daylighted to provide drainage.

SCANNING OF DOCUMENT

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.
